

Notice of Allowability

Application No.

10/705,435

Examiner

Minerva Rivero

Applicant(s)

LIU ET AL.

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/10/03.
2. ☒ The allowed claim(s) is/are 1-13.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Allowable Subject Matter

2. Claims 1-13 are allowed.
3. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1, 5, 11 and 12, Worthington *et al.* (US 2002/0176342) disclose a system for adjusting optical disc drives, comprising:

an optical disc drive component, comprising a rotating disc and a reflector located on the rotating disc ([0195]);

a monitor ([0204], Line 2);

a reader, reading a bar code of the optical pickup head ([0286], Lines 5-7);

a switch box, coupled to the monitor (*switch coupled to detection elements*, [0283], Lines 5-7).

However, Worthington does not explicitly disclose an autocollimator, coupled to the switch box, located above the rotating disc, for sensing a tilt angle of the reflector on the rotating disc and transmitting signals to the switch box to display a first bright spot on the monitor, a host, coupled to the switch box, for calculating the tilt angle of the optical drive component and transmitting signals to the switch box to display a second bright spot on the monitor and an adjustment mechanism for adjusting the optical drive component and switching signals from the autocollimator and the host using the switch box, enabling the first bright spot from the autocollimator to coincide with the second bright spot from the host.

Therefore claims 1, 5, 11 and 12, and their respective dependent claims, 2-4, 6-10 and 13, are allowable over the prior art of record.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Watanabe *et al.* (US Patent 5,764,611) disclose an information reproducing apparatus having function of detecting inclination of a manual scan type reading device.

Okuda *et al.* (US 5,896,362) disclose a lens inclination adjustment system.

Lin *et al.* (US 6,862,257) disclose a method for adjusting a tilt angle for an angle optical disc player.

Hollen *et al.* (US Patent 5,708,633) disclose a method and apparatus for manufacturing information storage devices.

Schroder *et al.* (US Patent 6,678,222) disclose an apparatus for reading or writing to optical recording media having a tilting-compensation device.

Terashi *et al.* (US Patent 6,728,185) disclose a device for assembling and adjusting an optical unit.

Lee *et al.* (US Patent 5,790,327) disclose an apparatus and method for fabricating a deflection mirror tower.

Yanagawa *et al.* (US Patent 6,925,039) disclose a device for controlling a tilt servo.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minerva Rivero whose telephone number is (571) 272-7626. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MR 8/18/06



WAYNE YOUNG
SUPERVISORY PATENT EXAMINER